COLSF 64 V1

LANDAU
ASSOCIATES,
INC.
Geoenvironmental Engineering and Technologies

April 10, 1992

Mr. Mike Kuntz
Washington State Department of Ecology
P.O. Box 47600 M/S PV-11
Olympia, WA 98504-8711

RE: COLBERT LANDFILL RD/RA
PROGRESS REPORT
FIRST QUARTER 1992

Dear Mr. Kuntz:

Presented herein is the First Quarter (January, February, March) 1992 Progress Report for the Colbert Landfill RD/RA Superfund Project (Project), which was prepared by Landau Associates, Inc., Spokane County's engineering consultant. This progress report addresses the reporting requirements specified in Section XI of the Project Consent Decree, including:

- Remedial action activities commenced or completed during the reporting period
- Remedial action activities projected to be commenced or completed for the Second Quarter (through June) 1992
- Any problems that were encountered or are anticipated.

1.0 ACTIVITIES COMMENCED/COMPLETED DURING REPORTING PERIOD

Activities commenced and/or completed during this reporting period include preparation and submittal (to Ecology and EPA) of revised Phase I work plans for Phase II construction, preparation and submittal (to Ecology and EPA) of preliminary Phase II design documents, and additional groundwater sampling and analyses. Specific activities performed during the reporting period included:

- The Phase I Health and Safety Plan and the Quality Assurance Project Plan were revised for Phase II construction activities. The Plans were submitted to Ecology and EPA for review and comment on February 28, 1992.
- The Phase II Preliminary Extraction Well, Treatment and Discharge, and Groundwater Monitoring Plans were prepared and submitted to Ecology and EPA for review and comment on March 10, 1992. These Preliminary Plans constitute 30 percent of Phase II design.
- Additional groundwater sampling and analyses were performed for monitoring wells located near the perimeter of contaminant plumes in the Upper and Lower Sand/Gravel Aquifers. Samples were collected from 16

wells between February 5 and February 9, 1992. All samples were analyzed for the six Constituents of Concern (TCA, methylene chloride, TCE, DCA, DCE, and PCE). The analytical results are provided in Table 1. These results are consistent with previously collected analytical data. However, the constituent concentrations at Monitoring Well CD-40C1 are of note because of the trend of increasing concentration over time. Because of the depth-discrete nature of the Constituents of Concern at Monitoring Location CD-40 (no detectable constituent levels have been observed at Monitoring Well CD-40C2 or Monitoring Well CD-40C3), and the apparent hydraulic connection of downgradient domestic wells with the Little Spokane River, it appears unlikely that constituent levels in the downgradient domestic wells will reach those observed in Monitoring Well CD-40C1. Nevertheless, Monitoring Well CD-40C1 will be monitored periodically to identify long-term constituent trends.

2.0 ACTIVITIES PROJECTED TO BE COMMENCED/COMPLETED DURING NEXT REPORTING PERIOD

As specified in Section XI of the Project Consent Decree, the next reporting period extends through the Second Quarter (June) of 1992. Anticipated activities for the next reporting period include:

- Review of Ecology and EPA review comments on Phase II work plans and preliminary design documents. Based on the Schedule for Submittal of Deliverables (Landau Associates 1989), Ecology and EPA review comments on the initial Phase II submittals are due by April 10. Spokane County will address these comments by appropriate modifications to the final Phase II work plans and during subsequent Phase II design, or by written response.

- Prepare final Phase II work plans. The Schedule for Submittal of Deliverables does not require submittal of final Phase II work plans until 90 days following receipt of Ecology and EPA comments, based on these documents representing 60 percent of Phase II design. However, Phase II well construction is planned to be initiated by June 1992 to maintain the overall Project schedule, and final Phase II work plan preparation must be completed prior to the start of Phase II well construction. Consequently, the Phase II work plans will be finalized and submitted independently prior to June 1992. It is proposed that the 60 percent design submittal will include primarily construction plans and specifications. This proposed submittal modification will maintain or accelerate the overall Phase II design schedule.

- Select the drilling contractor and procure the stripping tower. A drilling contractor for construction of Phase II extraction and monitoring wells will be selected following Ecology and EPA concurrence with well construction locations and design details provided in the Preliminary Phase II Groundwater Monitoring Well Plan and the Preliminary Phase II Extraction Well Plan. Stripping tower procurement will be initiated upon Ecology and EPA

concurrence with the final Treatment and Discharge Plan, which includes the specification for procurement of the air stripping system.

3.0 ENCOUNTERED/ANTICIPATED PROBLEMS

No problems were encountered during the previous reporting period. However, a potential problem related to National Pollutant Discharge Elimination System (NPDES) program was identified by Ecology. In addition to the Constituents of Concern, and the common NPDES parameters identified in the Preliminary Phase II Treatment and Discharge Plan, Ecology has identified State surface water quality standards (WAC 173-201) and Federal ambient water quality standards as applicable standards for Project effluent discharges. Although available data may not suggest a specific problem meeting these criteria, the complete listing of criteria considered applicable by Ecology must be evaluated before a determination can be made. Additional testing, and possibly additional pilot studies, could be required to determine if the selected treatment technology (air stripping) can meet all applicable criteria, depending on the criteria identified by Ecology. This process may significantly lengthen the Phase II design process, particularly if a new treatment technology must be selected. Phase II treatment system design cannot proceed beyond the preliminary stage until the NPDES issues are resolved.

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This report describes progress on only the primary Project remedial action activities. There are peripheral activities associated with the primary activities that are not described herein. If clarification is required for any of the activities presented in this progress report, or if additional information is desired for peripheral activities, please contact me or Dean Fowler (Spokane County).

LANDAU ASSOCIATES, INC.

By:

Lawrence D. Beard, P.E.
Project Manager

LDB/sms
No. 124001.60

cc: Neil Thompson, EPA
Dean Fowler, Spokane County
Lyle Diedieker, Ecology and Environment

TABLE 1
COLBERT LANDFILL RD/RA
FEBRUARY 1992
VOC ANALYSIS RESULTS (a)

Well No.	Date Sampled	Sample No.	1,1,1-TCA	1,1-DCE	1,1-DCA	Methylene Chloride	TCE	PCE
CD-5	09-Feb-92	491	0.30 U	0.13 U	0.70 U	1.8 UJ	1.2 U	0.30 U
CD-34A	06-Feb-92	480	8.8	0.13 U	0.70 U	0.98 UJ	1.2 U	0.30 U
CD-35A	07-Feb-92	486	1.8 J	0.13 U	0.70 U	3.7 UJ	1.2 U	0.30 U
CD-40C1	08-Feb-92	490	140 D	8.3	5.8 J	4.3 UJ	1.2 U	0.30 U
CD-41C1	05-Feb-92	477	0.30 U	0.13 U	0.70 U	1.2 UJ	1.2 U	0.30 U
CD-41C2	05-Feb-92	476	0.57 UJ	0.13 U	0.70 U	0.83 UJ	1.2 U	0.30 U
CD-41C3	06-Feb-92	478	2.1 J	0.13 U	0.70 U	0.59 UJ	1.2 U	0.30 U
CD-42C1	07-Feb-92	484	1.5 J	0.13 U	0.70 U	2.1 UJ	1.2 U	0.30 U
CD-42C2	07-Feb-92	481	3.9	0.13 U	0.70 U	0.68 UJ	1.2 U	0.30 U
CD-42C2 (dup)	07-Feb-92	483	3.7	0.13 U	0.70 U	1.7 UJ	1.2 U	0.30 U
CD-42C3	07-Feb-92	482	0.37 J	0.13 U	0.70 U	0.61 UJ	1.2 U	0.30 U
CD-43C1	06-Feb-92	479	0.30 U	0.13 U	0.70 U	1.1 UJ	1.2 U	0.30 U
CD-43C2	08-Feb-92	488	0.31 UJ	0.13 UJ	0.70 U	0.49 UJ	1.2 U	0.30 U
CD-43C3	08-Feb-92	487	0.30 U	0.13 U	0.70 U	2.1 UJ	1.2 U	0.30 U
CD-44C2	08-Feb-92	489	0.70 UJ	0.13 U	0.70 U	2.4 UJ	1.2 U	0.30 U
CD-45C2	09-Feb-92	492	0.30 U	0.13 U	0.70 U	2.0 UJ	1.2 U	0.3 U
Rinsate Blank	07-Feb-92	485	0.48 J	0.13 U	0.70 U	3.4 UJ	1.2 U	0.30 U
Trip Blank	07-Feb-92	FB	0.30 U	0.13 U	0.70 U	1.2 UJ	1.2 UJ	0.30 U

U = Analyte not detected at the detection limit indicated.
D = Sample was diluted prior to analysis.
J = Analyte detected below the detection limit indicated.

(a) All results in parts per billion.

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